SPRING BEAM

12

14

10

MIRROR FACE

t

FIN

18

16

Fig. 1A

w

L

t

(t<w)

FIG. 1B

10

12
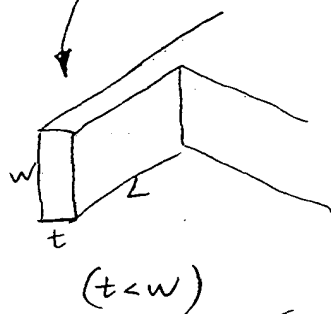
14

16

FIG. 1C

STOPPER 26

ELECTRODE 24

18

16

MIRROR FACE

θ

MIRROR FACE

FIN

FIN

10

NOZZLE 20

VALVE (INDIVIDUAL)
22

Fig. 2

Fig. 3

30

COMPRESSOR

32

PRESSURE
RESERVOIR
$\Delta P \approx 0.2\,atm$

10

34

24

VOLTAGE
STEP

ARRAY OF
MIRRORS
35

INDIVIDUAL
VALVE 22

PRESSURE
PULSE

33

Fast valve (COMMON)

(~2 ms)

FIG. 4

PRESSURE

t

VOLTAGE

t

(RELEASE)
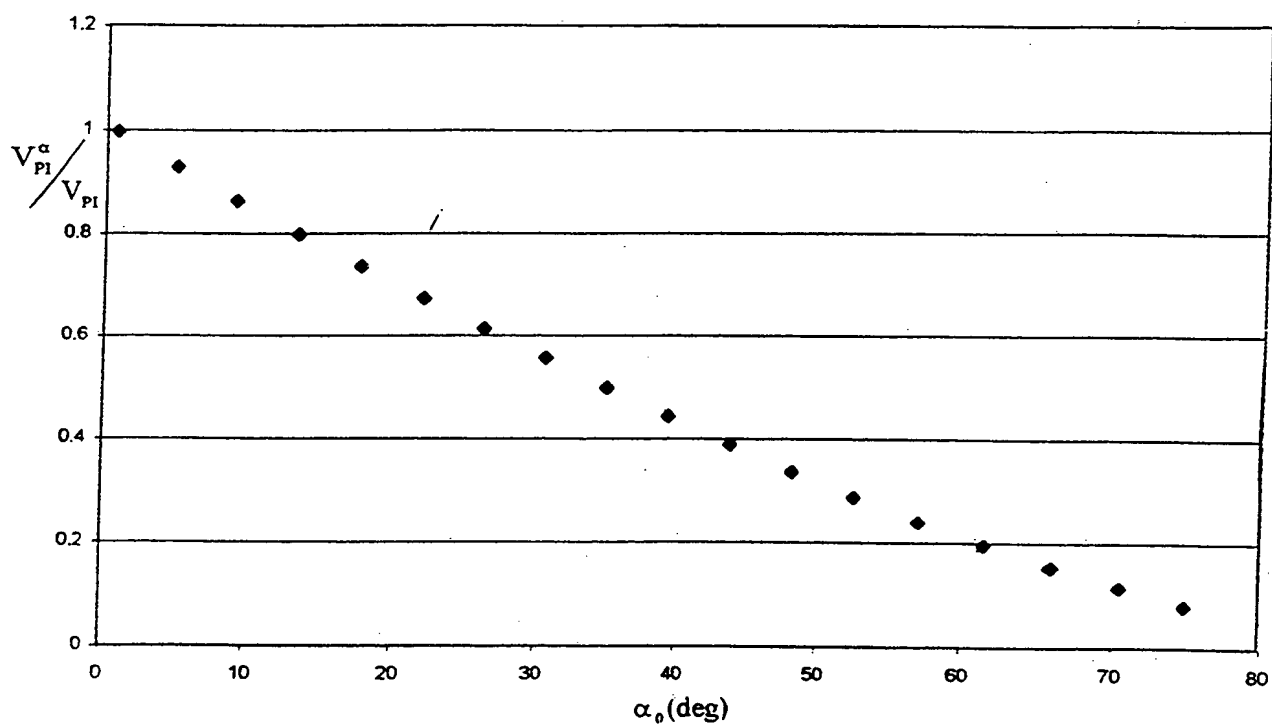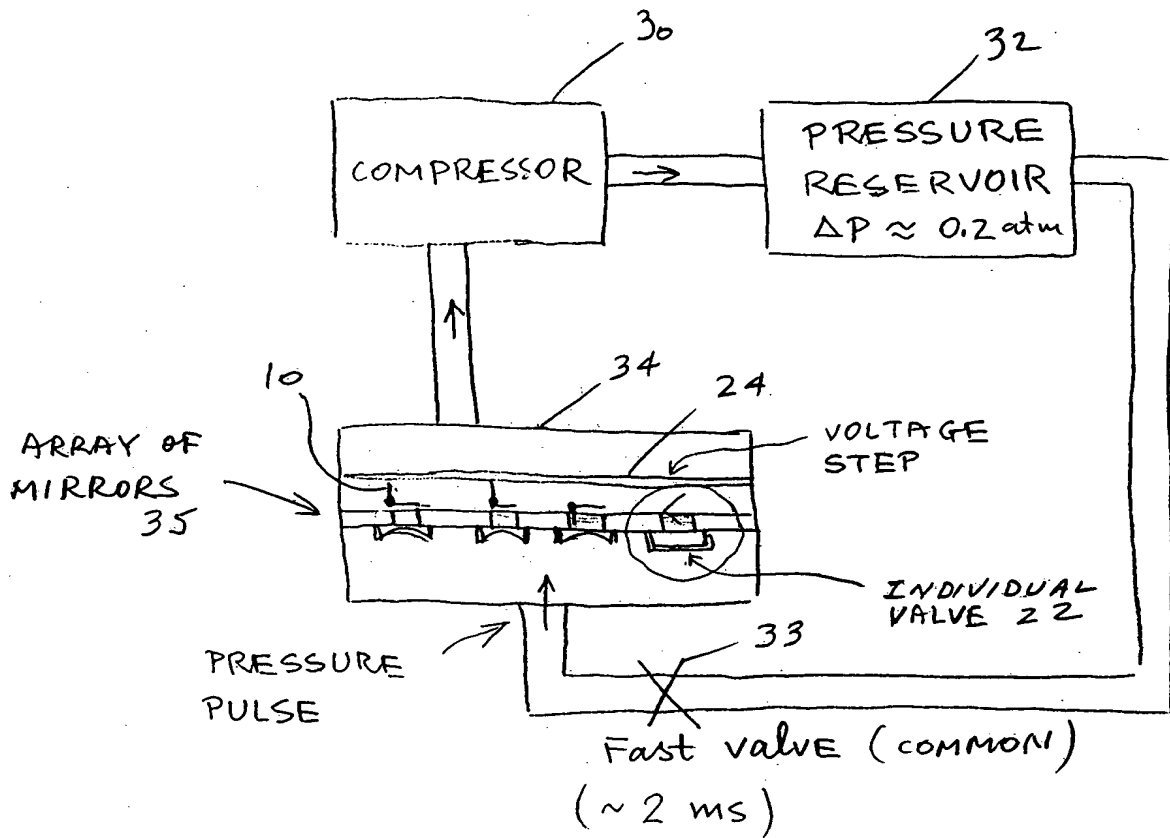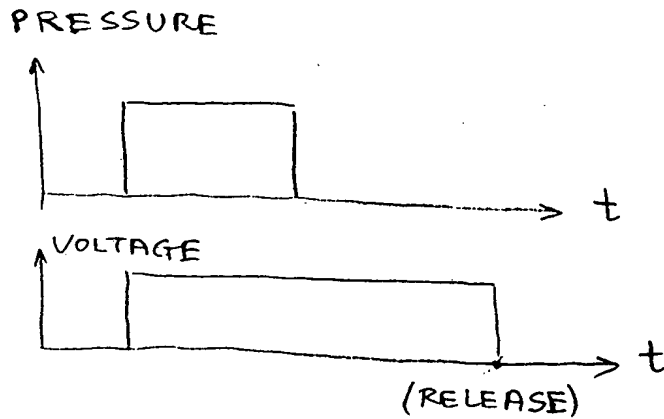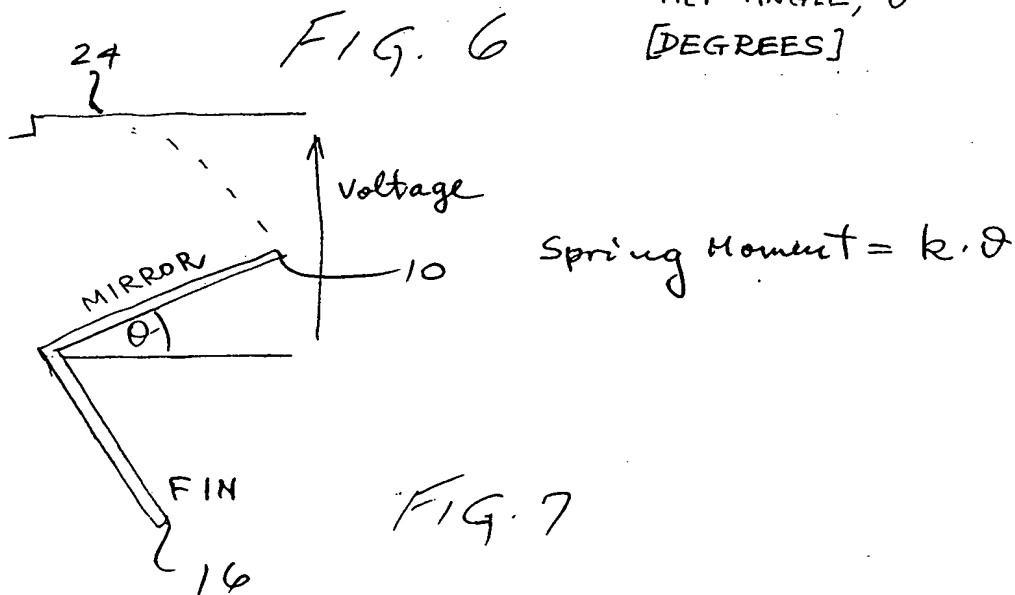
FIG. 5

thickness= 5e-007 *[meter]*   v= 50 *[volt]*
length= 0.0003   *[meter]*
width= 1e-005   *[meter]*
elastic= 7.000000e+010 *[pascal]*
srp= 0.1 *[atmosphere]*

FIG. 6

Spring Moment = k·θ

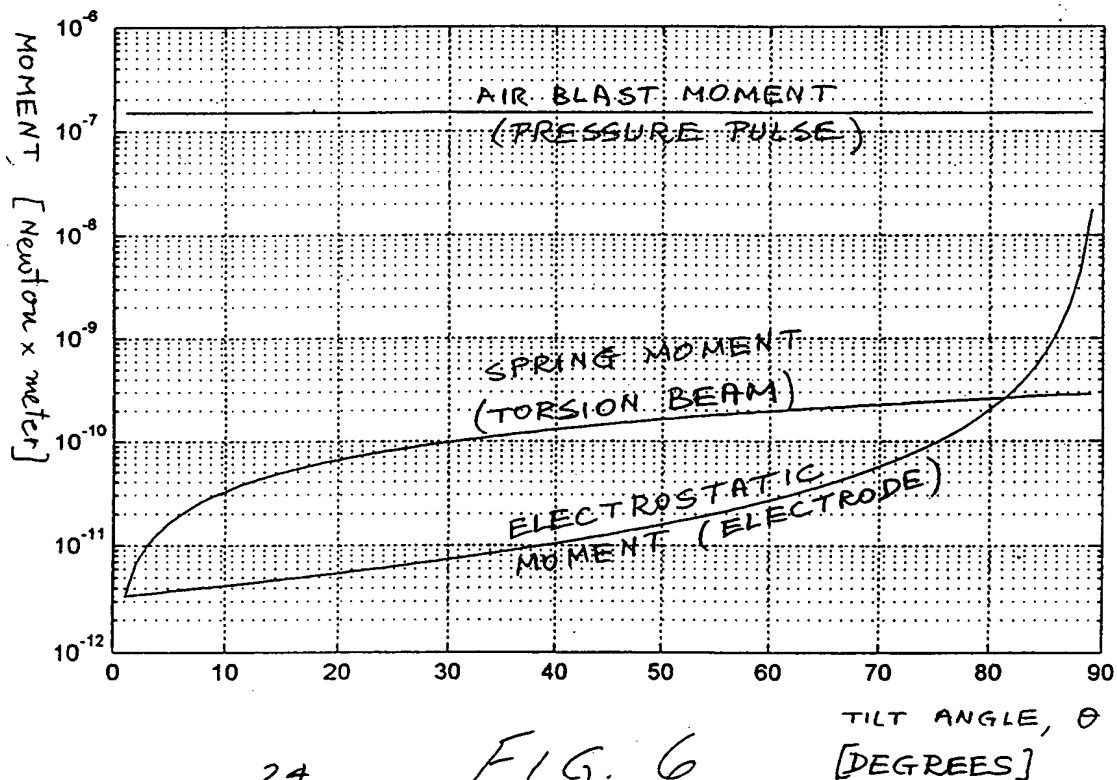FIG. 7

thickness= 2e-006 [meter]　　　v= 50 [Volt]
length= 0.0003 [meter]
width= 1e-005 [meter]
elastic= 7.000000e+010 [pascal]
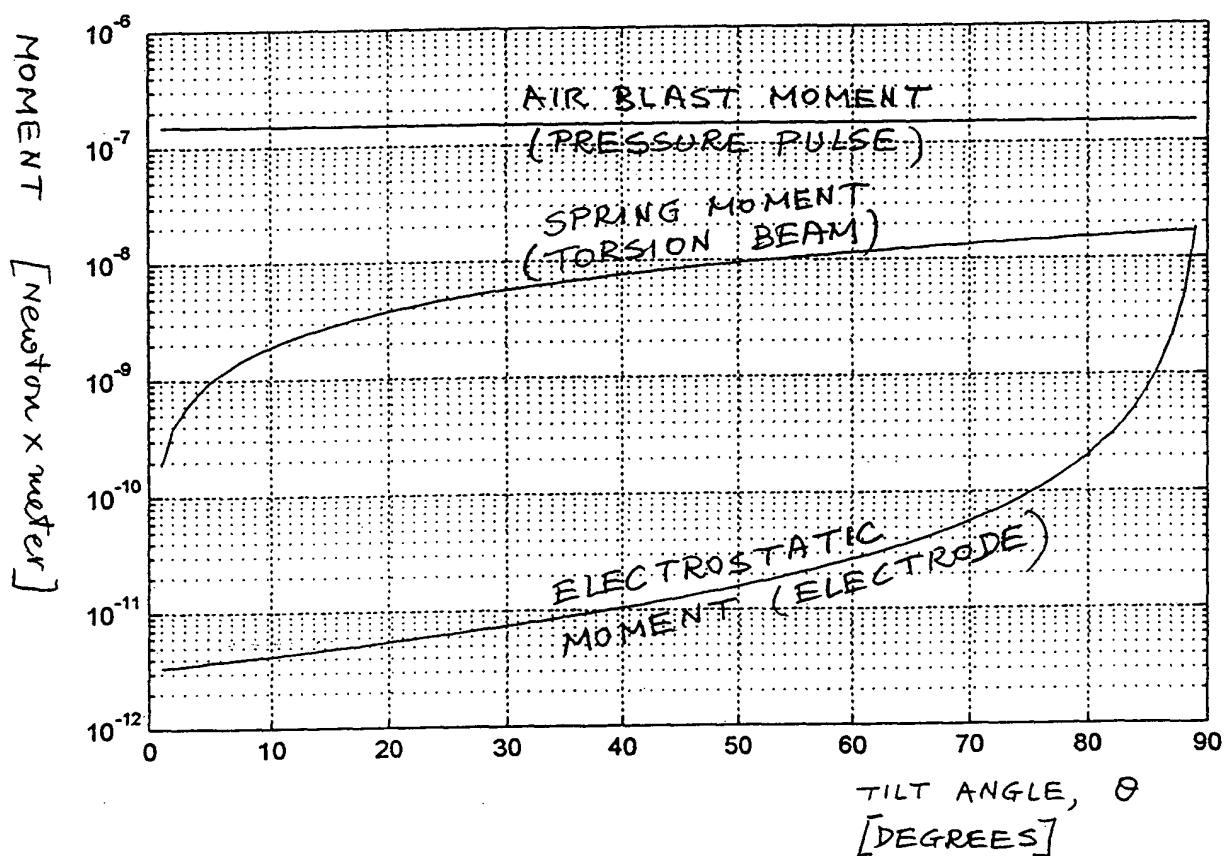srp= 0.1 [atmosphere]

Fig. 8

thickness= 2e-006 [meter]   v= 200 [volt]
length= 0.0003   [meter]
width= 1e-005   [meter]
elastic= 7.000000e+010 [pascal]
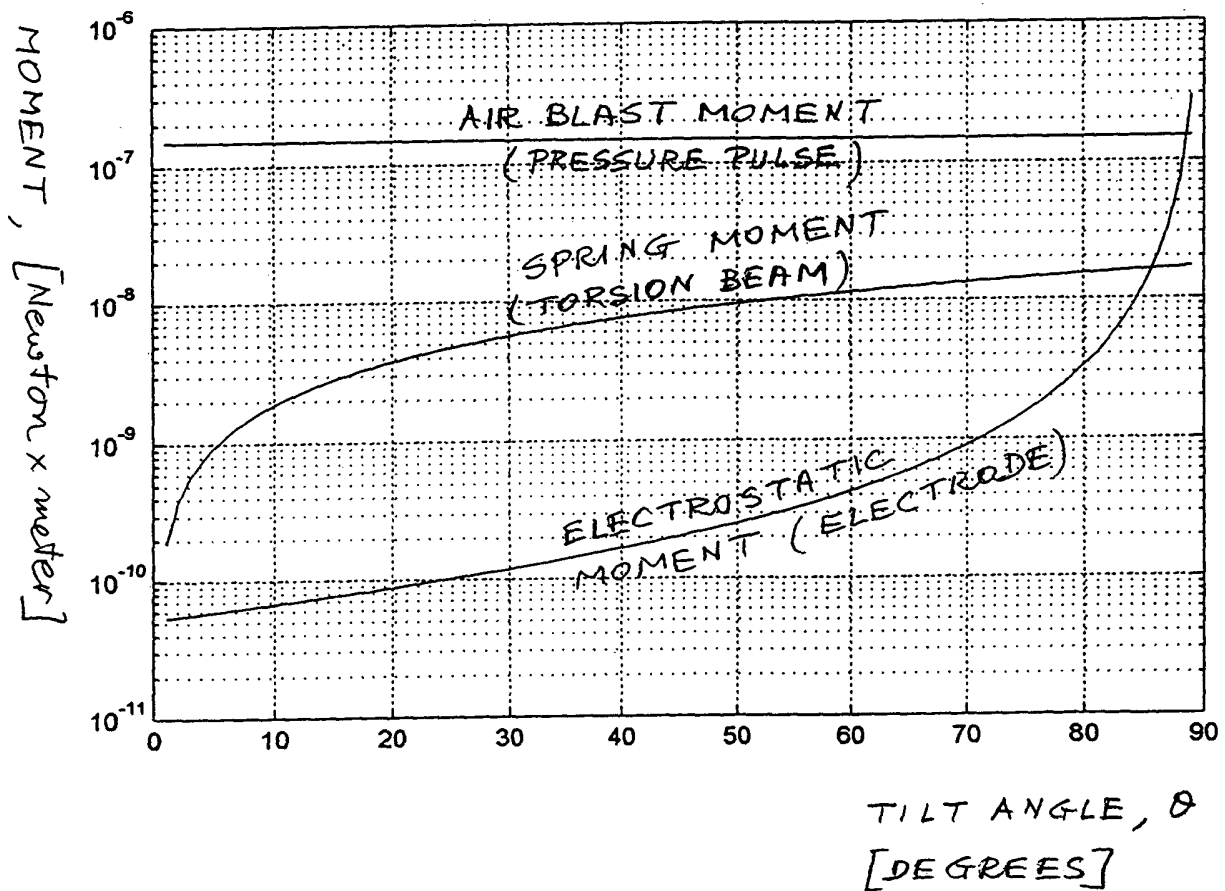srp= 0.1 [atmosphere]

FIG. 9